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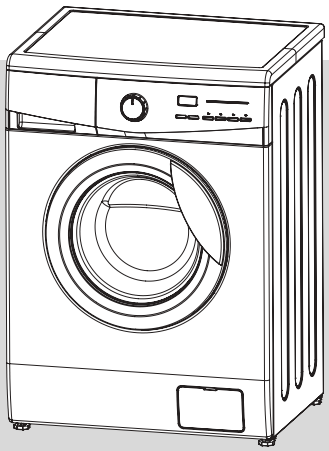
DAEWOO ELECTRONICS

사양 확인 및 배포
2008.11.27
리)생산기술팀

Washing Machine Instruction Manual

DWD-M1031

INSTRUCTION MANUAL



■ **Economic washing system**
The washing machine determines the water level and washing time automatically by sensing the amount of laundry and water temperature in order to minimize energy and water consumption.

■ **Low noise system**
The washing machine minimizes the spinning noise level by sensing the amount of unbalance of laundry.

■ **Nano-silver sterilization washing(Option)**
By applying very fine silver particles on essential parts inside, the washer sterilizes up to 99.9% as is done by boiling wash.

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A NOTE TO YOU

Thank you for buying a DAEWOO appliance.
DAEWOO washers are easy to use, save time, and help you manage your home better.
This manual contains valuable information about how to operate and maintain your washer properly and safely.
Please read it carefully.

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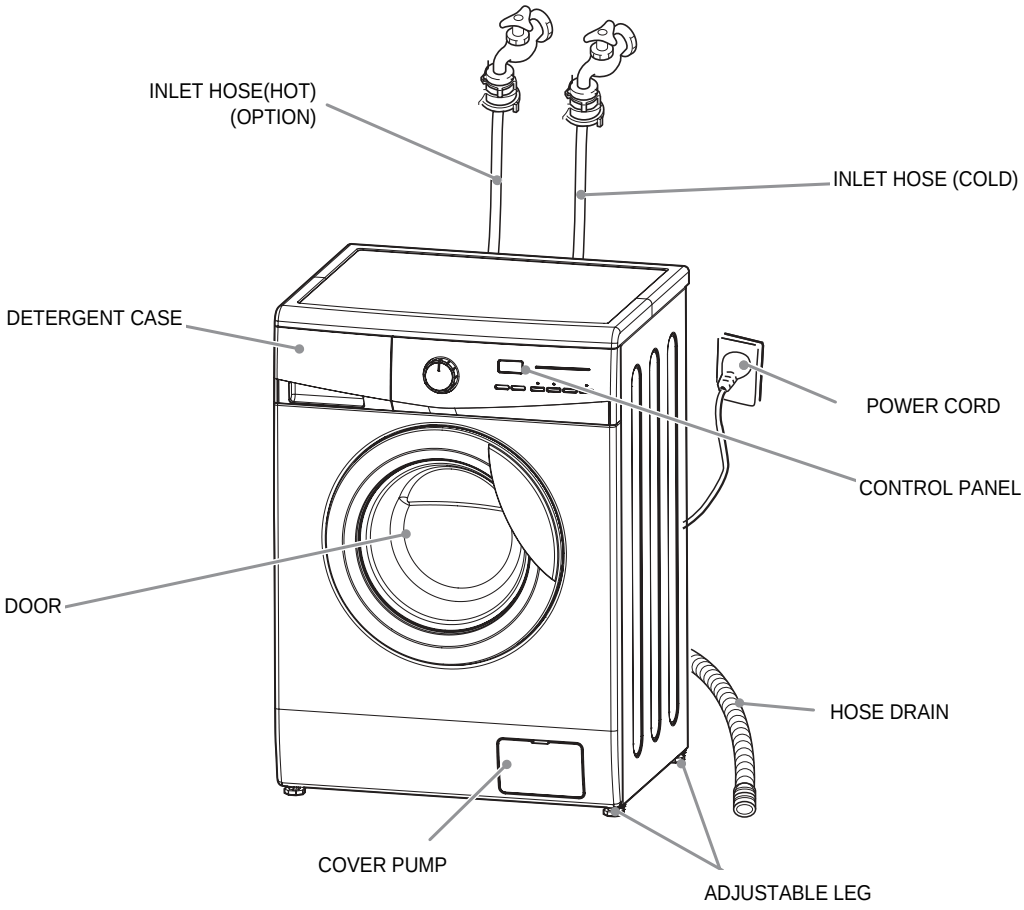
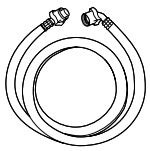
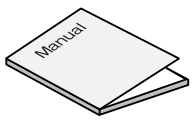
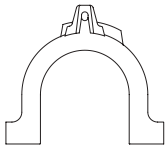
PARTS AND FEATURES

The parts and features of your washer are illustrated on the page.
Become familiar with all parts and features before using your washer.

NOTE
The drawings in the book may vary from your washer model.
They are designed to show the different features of all models coverd by this book.
Your model may not include all features.



Accessories

Inlet hose (Cold: 1EA, Hot: 1EA)	Manual	Sticker holder (3EA)	Guide Hose Drain (Option)
			

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WASHER SAFETY

Save these instructions

Your safety is important to us.
To reduce the risk of fire, electrical shock, or injury when using your washer adhere to the following basic precautions.

Read all instructions before using your washer	
• Flammable fluids (dry-cleaning solvents, kerosene, gasoline, etc.) should not be used or stored in or near your washer. Do not add flammable fluids to your wash water.These substances give off vapors that can create a fire hazard or explosion. • After starting a cycle, do not reach into the washer until all motions stop. • Do not tamper with the controls. • The appliance is not intended for use by young children or infirm persons without supervision. • If the supply cord is damaged, it must be replaced by the manufacturer, or its service agent or a similarly qualified person in order to avoid a hazard. • If the appliance is supplied from a cord extension set or electrical portable outlet device it should be positioned so that it is not subjected to splashing or ingress of moisture.	Please ... • Have only a qualified person install, repair, or replace parts on washer. • Maintain washer properly. • Protect washer from the weather and keep it where the temperature will not fall below freezing. • Do not install the washer at a place of extremely high humidity. It could cause an electric shock or a short circuit. • Connect washer to the correct outlet, electrical supply, water supply, and drain supply.

Understanding your responsibilities

• Do not use chlorine bleach and ammonia or acid(such as vinegar or rust remover) in the same wash. Hazardous fumes can form.
• Unplug power supply cord before attempting to service your washer.
• Do not wash fiberglass material.
Small particles can stick to fabrics washed in following loads and cause skin irritation.
• Do not spray water on the control panel of the washer.
It could cause fire or an electric shock.
• In case of the dual valve model, if you connect only one water inlet valve, the water leakage from other water inlet valve(unconnected) can occurs.
• This appliance must be grounded.
To avoid electrical shock, use a metal pipe for the ground connection.

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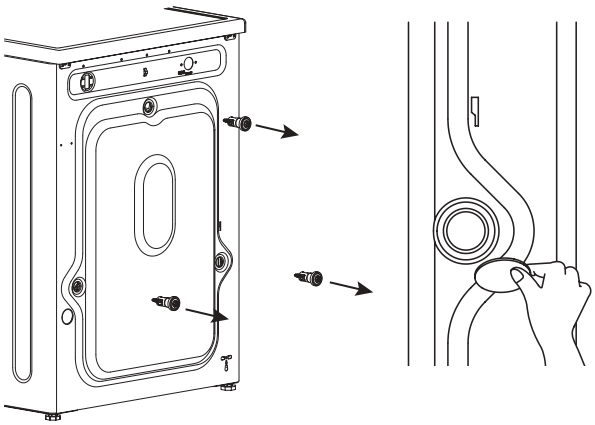
INSTALLATION INSTRUCTIONS

Removing transit bolts

1. Before operating the washer, remove the transit bolts(3ea) along with the rubber.
   • If the bolts are not removed, it may cause heavy vibration, noise and malfunction.

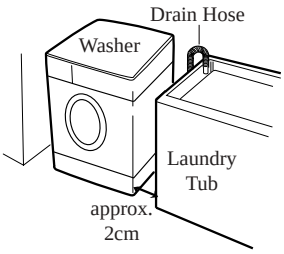
2. Unscrew the 3 bolts with the 10mm hex wrench or spanner or cross-tip screwdriver. Keep the 3 bolts for a later time.
   • When the appliance is transported, transit bolts will be re-used.

3. Close the holes with sticker holders supplied.



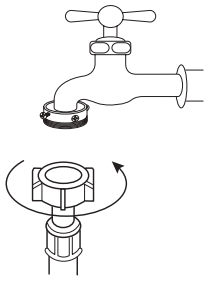
Location of washer

- Check location where the washer will be installed. Make sure you have everything necessary for correct installation.
- Do not place or store your washer below 0°C (32°F) to avoid any damage from freezing.
- Do not place or store laundry products on top of washer at any times.
- Install the washer on the horizontal solid floor.
  If the washer is installed on an unsuitable floor, it could make considerable noise, vibrate severely and cause a malfunction. If the washer is not level, adjust leg up or down for horizontal installation.
- Ventilation openings must not be obstructed by carpeting when the washer is installed on a carpeted floor.
- Leave some space (right & left : 2cm, rear : 10cm).
- In case of built-in installation, the distance between top of the washer and bottom of upper plate should be at least 3mm.

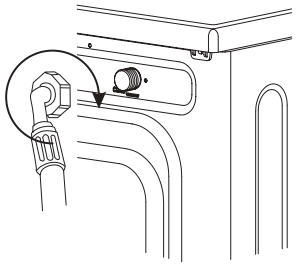


Inlet hose connection

- The washer should be connected to the water mains using new hose set and old hose sets should not be reused.
- In case of only one water inlet valve, connect the inlet hose to the cold water tap.



1. Connect the inlet hose to the water tap tightly.



2. Connect the inlet hose to the water inlet valve tightly.

- Periodically check the tightness of the inlet hose.
- Make sure that the inlet hose is not kinked or folded and that it is not crushed.

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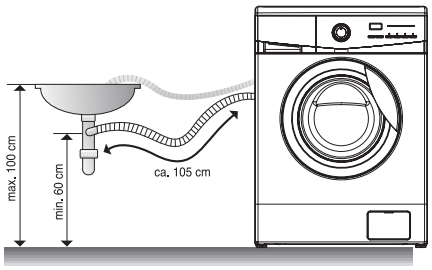
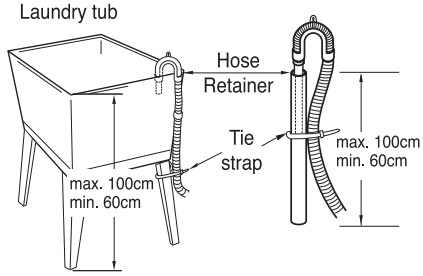
Drain system

- Never forget to install drain hose before operating your washer.
- Open the packing box, and the drain hose is tied at backside of washer.
- If you use the laundry tub, Top of laundry tub must be at least 60cm high and no higher than 100cm from bottom of washer.

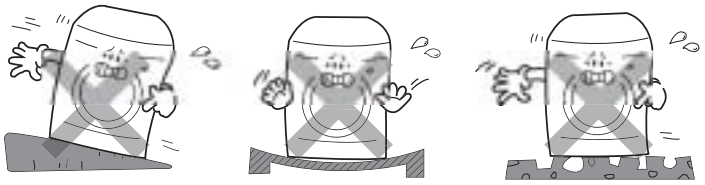




- When installing the drain hose to tub(sink), secure it tightly with a string.
- Proper securing of the drain hose will protect the floor from damage due to water leakage.
- When the drain hose is too long, do not force it back into the washer. This will cause abnormal noise.

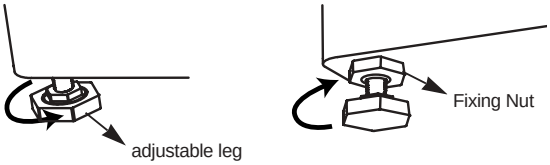
Level adjustment

① If the washer is installed on an unsuitable floor, it could make considerable noise, vibrate and cause a malfunction.

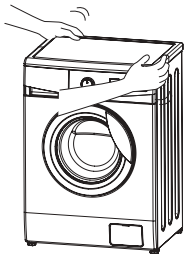


② Adjust the level of washer using adjustable legs.

- Please check if there is any gap between the four adjustable legs and the floor.
- Adjust the level of washer by turning adjustable legs. And make it sure that there is no swaying of washer.
- After the adjustment is finished, turn the fixing nuts up tightly so that the washer maintains the adjustment.



③ Make it sure that the washer does not sway when you press down the four corners of the washer's top plate.



NOTE
There should be no swaying of washer and all the adjustable legs should stick to the floor closely.

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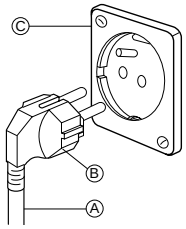
ELECTRICAL REQUIREMENTS

WARNING	Electrical shock hazard : Failure to follow these instructions could result in death or serious injury.

- Electrical earth is required on this washer
- If it does not fit the outlet, have a proper outlet installed by a qualified electrician.

- Don't earth to a gas pipe.
- Don't change the power supply cord plug.
- Check with a qualified electrician if you are not sure the washer is properly earthed.

Recommended earthing method



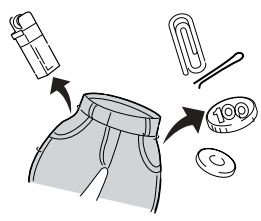
For your personal safety, this washer must be earthed.
This washer is equipped with a power supply cord 'A' having a earthing plug 'B'. To minimize possible shock hazard, the cord must be plugged into a mating earthing-type wall receptacle 'C'. If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have the proper earthed wall receptacle installed by a qualified electrician.

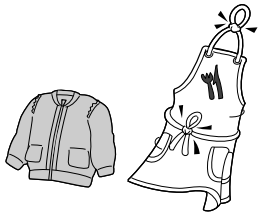
OPERATING YOUR WASHER

To obtain the best washing results, you must operate your washer properly.
This section gives you this important information.

Preparing clothes for washing

- Close zippers, snaps, and hooks to avoid snagging other items.
  Remove pin, buckles, and other hard objects to avoid scratching the washer interior.
- Empty pockets and pull them inside out.
- Turn down cuffs and turn synthetic knits inside out to avoid pilling.
- Tie strings and sashes to avoid tangling.
- Treat spots and stains.
  (See "Removing stains" on page 21)





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Sorting

- Separate heavily soiled items from lightly soiled ones, even if they would normally be washed together.
- Separate dark colors from light colors, colorfast items from non-colorfast item.

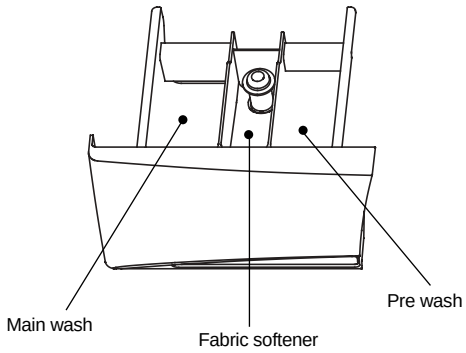
Soil (Heavy, Normal, Light)	Separate clothes according to amount of soil.
Color (White, Lignts, Darks)	Separate white clothes from colored clothes.
Lint (Lint producers, Collectors)	Wash lint producers and lint collectors separately.

Loading

- Drop items into washer loosely. Items should move easily through wash water for best cleaning and wrinkle-free results.
- Load washer properly and select correct load size setting.
  Overloading and selecting a setting too small for the wash load can :
  - Cause poor cleaning
  - Increase wrinkling
  - Create excessive lint
  - Wear out items faster (because of pilling)
- Mix large and small items in each load. Load evenly to maintain washer balance.
  An unbalanced load can make the washer vibrate during spin.
- Reduce wash time when using a small load size setting. Load with only a few small items needs less wash time.
- Use a large load size setting to reduce wrinkling with permanent press clothes and some synthetic knits. These items should have more room to move in the water than heavy items. (towels, jeans)

Adding detergent

① Detergent case



② Adding fabric softener

- If desired, add measured liquid fabric softener to the softener inlet.
- Pour liquid fabric softener into the dispenser using the amount recommended on the package.
- Do not exceed the maximum fill line. Overfilling can cause early dispensing of the fabric softener which could stain clothes.
- Do not open the detergent case when water is supplied.
- Avoid pouring fabric softener directly on the clothes.

- Please use only the powder detergent for the front loader washing machine.
- Please use the proper amount of detergent in conformity with the instruction of the detergent manufacturer.
- A use of a large amount of detergent more than the recommended amount can cause many soapsuds and the overload to the motor. In addition to, this will deteriorate the washing and rinse performance.
- If too much detergent used, it can occur that the detergent directly falls down to the inside cavity. In this case, remove the detergent case and clean the cavity after washing cycle is finished. (See page 13)

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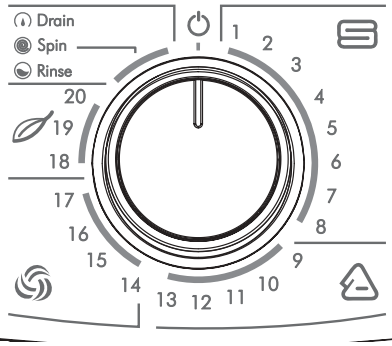
THE FUNCTIONS OF THE CONTROL PANEL

Program selector

For switching the washing machine on and off and for selecting the program.

Can be rotated in both direction.

Even if the program selector rotates while the program is running, the program is not changed (except for off ⏻) .
(All program is electronically controlled by PCB)



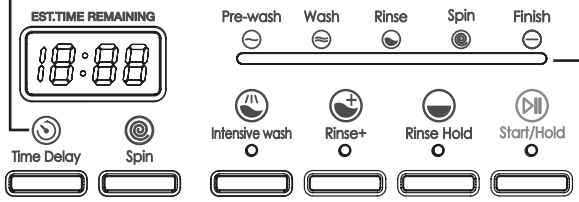
Indicator light

The respective indicator lights up,
When the required program segment runs or “Time delay” is selected.

Time delay

To pre-engage time for washing.

As the button is pressed, the delayed time is repeated as following;
2hours or 3hours → 6hours → 9hours → max 12hours



Button for options

(in addition to the program if required)

Intensive wash Extended washing time.

Rinse + Extra rinse cycle.

Rinse Hold No final spin cycle

- Combination of additional option is possible.
- The indicator lamp of the buttons lights up if options are active.
- Switch off option : Press button again.

Start/Hold button

For starting the washing cycle
(program must have been selected)

Spin button

As button is pressed, spin rpm is repeated as following
800 → 1000 → 600 → 800

*Warning
If value of unbalance is extremely high, spin speed can't reached that r.p.m of selected by spin button.

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PROGRAMS AND FUNCTIONS

Programs and functions

Program	Fabric type	Proper Temp.	Degree of soiling	Option	Max. Load	Remark
COTTON	Colorfast garments (shirts, night dresses, pajamas…) and lightly soiled white cotton (underwear…)	Cold 30°C 40°C	Lightly soiled	Intensive wash Rinse+ Rinse hold	Rating	
		60°C	Normally to heavily soiled			
		60°C/Pre	Heavily soiled			
	White cotton, linen and sheet….	95°C	Normally soiled			First Check if laundry is washable.
Quick 30	Colored laundry.	30°C	Lightly soiled	Intensive wash Rinse+ Rinse hold	1.0kg	Short program (Fast washing time)
Mixed	Colored laundry. (shirts, underwear, towels…)	30°C	Normally soiled	Intensive wash Rinse+ Rinse hold	2.5kg	
SYNTHETICS	Made of polyamide, acrylic, polyester (synthetic or blended fabrics).	Cold 30°C 40°C 60°C	Lightly soiled	Intensive wash Rinse+ Rinse hold	2.5kg	
		60°C/Pre	Normally to heavily soiled			
WOOL	Machine washable wool or wool-rich textiles or silk.	Cold 30°C 40°C	Lightly soiled	Intensive wash Rinse+ Rinse hold	1.0kg	
Hand wash	‘Hand wash” marked delicate and wool laundry	30°C	Lightly soiled	Intensive wash Rinse+ Rinse hold		
DELICATE	Delicate, washable laundry easily damaged (silk, satin…).	Cold 30°C 40°C	Lightly soiled	Intensive wash Rinse+ Rinse hold	1.0kg	

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Rinse : Rinse cycle with subsequent spin cycle for rinsing hand-washed items.

Spin : Spin cycle after a program with setting “Rinse hold” is finished or for spinning hand-washed washing. Washing and rinsing water is drained before the spin cycle

Drain : Water is drained after program with setting “Rinse hold” is finished.

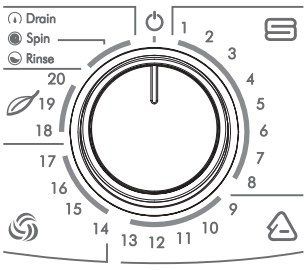
Intensive wash : The washing time is extended so that highly soiled laundry is washed more intensively.

Rinse+ : Additional rinsing of laundry. Program duration and rinsing water is extended accordingly. This help to remove residuary traces of detergent and recommended in area with very soft water.

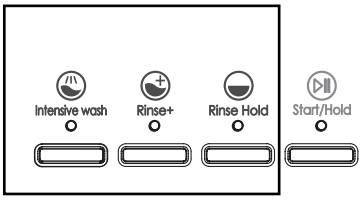
Rinse Hold : For delicate textiles and net curtains. All program can be carried out without the final spin cycle. The laundry is left in the final rinsing water. Before the laundry is unloaded, the “Drain” or “Spin” must be run by using program selector.

WASHING PROCEDURE AND PROGRAM SELECTION

Washing Procedure

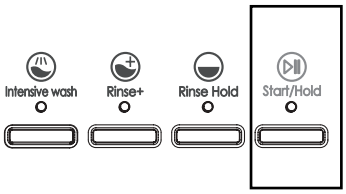


• Turn the program selector to the desired program
The indicator light of Start/Hold button is on.



• If required, press the button(s) for option(s).
The indicator light of the selected option button is on.

• If you select 'Rinse Hold' button, led of 'Rinse Hold' flicker continually and press 'Hold' button immediately, seleted 'Spin' course.
When you press 'Start' button, spin sequence begin.
You can take out laundry after spin course finish.



• Press the Start/Hold button.
The selected program starts and the indicator light of Start/Hold button twinkle.

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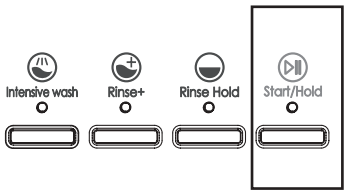
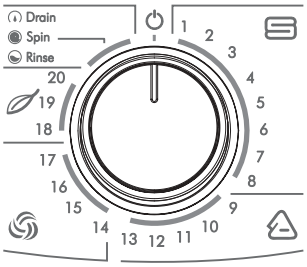
Changing the program

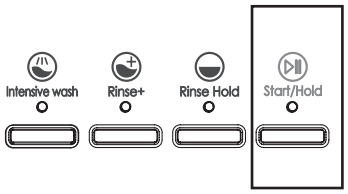
If you have accidentally selected the wrong program, follows next procedure.



• Press the Start/Hold button.
The selected program stops and the indicator light of Start/Hold button is not twinkle but on.



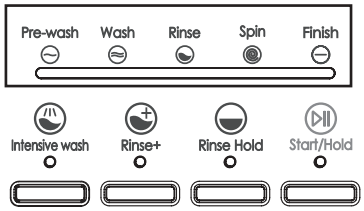
• Turn the program selector to OFF ⏻ and reselect the desired program by using the program selector.



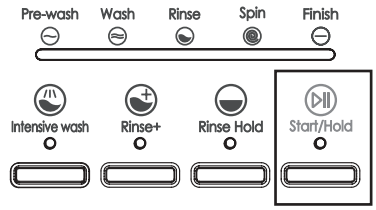
• If required, select the option(s).
And press the Start/Hold button. The newly selected program starts

Using Time delay

Firstly, you select the desired program and option(s).



• Pressing the "Time delay ⏲" button, select the delayed time.



• Press the "Start/Hold" button.
The indicator light of "Start/Hold" is off and the indicator light corresponding to the selected time is on.
• The displayed time shows program finishing time.

✻ Canceling Time delay

• Press the "Start/Hold" button.
(Then the indicator light of "Start/Hold" is on.)
• Turn the program selector to OFF.

After washing

When the washing is complete, the indicator light of Start/Hold button is not twinkle but on.
• Turn the program selector to OFF .

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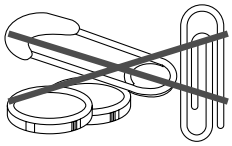
MAINTENANCE

Proper care of your washer can extend its life. This section explains how to care for your washer properly and safely.

Cleaning your washer

Exterior	Interior
Wipe up detergent, bleach, and other spills with a soft, damp cloth or sponge as they occur. Occasionally wipe the outside of the washer to keep its looking like new one. 	Clean interior with 250ml of chlorine bleach mixed with 500ml of detergent. Run washer through a complete cycle. Repeat this process if necessary.
Do not put sharp or metal object in your washer, or they can damage the finish. Check all pockets for pins, clips, money, bolts, nuts, etc. Do not lay these objects in your washer after emptying pockets. 	

Winter storage or moving care

Install and store your washer where it will not freeze. Because some water may stay in the hoses, freezing can damage your washer.
If you store or move your washer during freezing weather, winterize it.

To winterize washer	To use washer again
• Turn off the water tap. • Disconnect inlet hoses and drain the water of inlet hoses. • Run the washer on the drain and spin cycle setting. • Unplug the power supply cord.	• Flush water pipes and hoses. • Reconnect water inlet hoses. • Turn on water faucet. • Reconnect power supply cord.

Non-use or vacation care

Operate your washer only when you are at home.
If you are on vacation or don't use your washer for an extended period of time, you should:
• Unplug the power supply cord or turn off eletrical power to the washer.
• Turn off the water supplier to the washer.
This helps avoid accidental flooding (due to a water pressure surge) while you are away.

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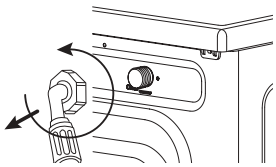
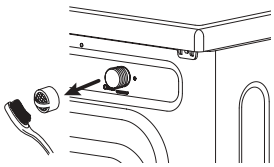
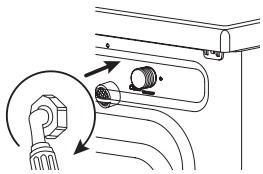
HOW TO CLEAN THE FILTER

Cleaning the water inlet filter

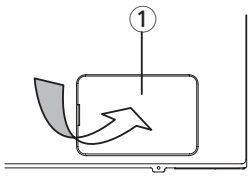
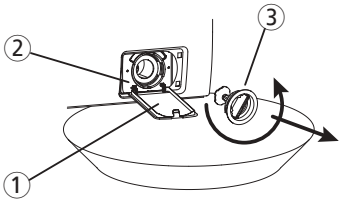
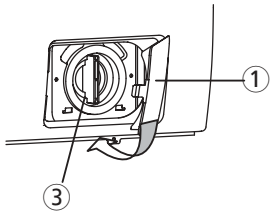
• Clean the filter when water leaks from the water inlet.

① Turn off the water tap.	② Separate the inlet hose.	③ Pull out the inlet filter. Clean the inlet filter with the brush	④ Connect the inlet hose
			

Cleaning the drain filter

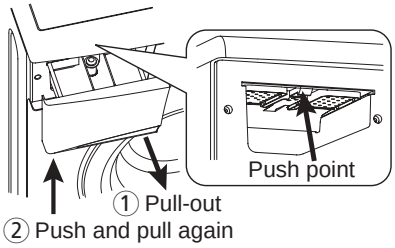
• This drain filter is used to screen the foreign stuffs such as threads, coins, pins, buttons etc..
• If the drain filter is not cleaned at proper time(every 10 times of use), drain problem could be caused.

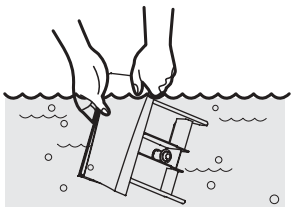
CAUTION : Be careful when draining if the water is hot.

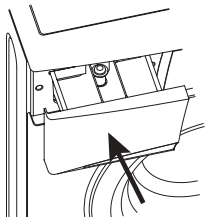
1. Open the cover-pump(①) by using coin. Separate the cover-pump(①) from the washing machine.	2. Install the cover-pump(①) to the lower frame(②). Open the pump-filter(③) slowly and allow the remaining water to flow into a suitable container.	3. Remove foreign objects from the pump-filter(③) and clean the interior. Close the pump-filter(③) and replace the cover-pump(①).
		

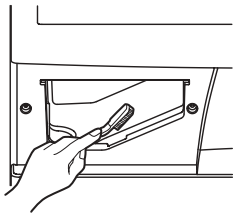
Cleaning the detergent case

• In case of residual detergents or fabric softeners have accumulated ;
- it should be cleaned with a jet of running water.
- If necessary, it can be removed completely from the washing machine.









• Detergents can be also accumulate the inside cavity.
In this case, the inside cavity should be cleaned with a brush.
• After cleaning, replace the detergent case and run Rinse cycle without laundry.

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REMOVING STAINS

Stained, heavily-soiled, or greasy items may need to be prewashed or soaked for best results. Soaking helps remove protein-type stains like blood, milk or grass. Prewashing helps loosen soil before washing.

Stain removal rules

- Use warm water for soaking or prewashing stained laundry. Hot water can set stains.
- Most stains are easier to remove when they are fresh.
- Before treating any stain, find out what kind of stain it is, how old the stain is, what kind of fabric it is, and whether the fabric is colorfast. (Check the care label)
- Washing and drying can set some stains.
- Start with cold or warm water. Hot water can set some stains.
- When bleach is recommended, use a bleach that is safe for the fabric.
- Put the stained area face down on a paper towel or white cloth. Apply the stain remover to the back of the stain. This forces the stain off fabric instead of through it.

Stain removal guide

STAIN	TO REMOVE
Blood	Rinse immediately in COLD water. If stain remains, soak in cold water with an enzyme prewash.
Chewing gum	Use ice in plastic bag to harden the gum. Scrape off what you can and the sponge with white spirits.
Cocoa, Chocolate	Sponge with COLD water and soak in an enzyme prewash. If stains persist, rub in a little detergent and rinse in cold water.
Coffee	Blot up quickly and rinse out in COLD water. Rub in a little detergent and wash in the maximum temperature allowed for the fabric type.
Cream/Milk Ice cream	Rinse in COLD water and wash normally. If stain is still apparent, sponge with white spirits.
Deodorant	Rub affected area with white vinegar and then rinse out in COLD water. Sponge with white spirits. Treat stiffened areas with enzyme prewash.
Egg	Soak in a COLD enzyme prewash, rinse and wash normally.
Fabric/Softener	Rub affected area with bar soap and wash normally.
Fruit stains	Treat as soon as possible by sponging with COLD water. Rub a little detergent on the stain and wash normally.
Grass	Sponge with white spirits. Rub in an enzyme prewash and wash as normally.
Grease and oil	Lay the affected area face down on an absorbent cloth and work from the back. Sponge with white spirits or dry cleaning fluid. Wash normally.
Iron or rust	Apply lemon juice and salt and place in the sun. Wash normally.
Lipstick	Sponge with white methylated spirits and wash normally.
Mildew	Wash in WARM water and detergent. Moisten area with lemon juice, dry in the sun and wash normally. If stain persists and the fabric allows, use a bleach.
Mud	Brush off any dry mud. Rinse in cold water. If stain persists rub in a little detergent and wash normally.
Paint-oil based	Scrape off any fresh paint and sponge with a non flammable dry cleaning fluid and wash normally.
Paint-water based	Treat while still wet, rinse in WARM water and wash normally.
Scorch marks	Dampen a cloth with hydrogen peroxide, lay it over the affected area and press with a fairly hot iron.

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TROUBLE SHOOTING

Most problems are easily solved if you understand the cause.
Check the following list for problem before calling for service.

Problem	Cause	Solution
Program dose not start.	Plug is loose or not plugged in.	Insert plug tightly.
	Power failure.	An interrupted program will be resumed when the power return.
	Loading door is not closed.	Check whether laundry is trapped in door. Close the loading door. (a click should be heard)
	Program is not selected.	Select the desired program.
	Start/hold button is not pressed.	Press the Start/hold button.
Water dose not enter the washing machine.	Water tap is not turned on.	Turn the water tap on.
	Inlet hose is kinked or folded.	Straighten the inlet hose.
	Filters is blocked in water inlet filter.	Clean the water inlet filter.
Washing machine is not drain.	Drain hose is kinked or clogged.	Straighten and clean the drain hose.
	Pump filter is clogged.	Clean the pump filter
Washing machine is not spin.	The amount of laundry is too small.	Add the laundry to balance. And repeat the Spin cycle.
	The laundry is unbalanced.	Rearrange the laundry. And repeat the Spin cycle. If articles of heavy clothing (e.g. bath robe) are loaded, washing machine may skip or stop the spin cycle.
Spin result is unsatisfactory.	Drain hose is placed over 1m above the floor.	Place the drain hose under 1m above the floor.
Foam come out of the detergent case.	Too much detergent or unsuitable detergent used.	Repeat the Rinse cycle.
Serious noise and vibration	Transit bolts are not removed.	Remove the transit bolts
	Washing machine is installed on uneven floor.	Reinstall washing machine on even floor.
	Washing machine is not leveled.	Adjust the level of washing machine using adjustable legs.

■ DISPLAY ERROR MESSAGE

MESSAGE	ERROR	CAUSE	SOLUTION
IE	WATER INLET ERROR	The water tap is closed.	Open the water tap.
		The filter of the valve inlet is clogged.	Clean the filter of the valve inlet.
		The valve inlet is an inferior product or broke down.	Change the valve inlet.
		The water level sensor (sensor pressure) is an inferior product or broke down.	Change the water level sensor (sensor pressure).
		The drain motor works during water supply.	Change the drain motor.
		The PCB ASS'Y does not check the water level.	Change the PCB ASS'Y.
OE	DRAIN ERROR	The drain hose is kinked or clogged.	Clean and straighten the drain hose.
		The drain motor is an inferior product.	Change the drain motor.
		The valve inlet works during drain.	Change the valve inlet
		The water level sensor is an inferior product.	Change the water level sensor.
		The PCB ASS'Y does not check the water level.	Change the PCB ASS'Y.
UE	UNBALANCE ERROR	The laundry is concentrated to one side of the drum during spin.	Rearrange the laundry.
LE	DOOR OPEN ERROR	The Start/Hold button is pressed while the door is opened.	Close the door.
		The switch door lock is an inferior product.	Change the switch door lock.
		The PCB ASS'Y does not check the door lock.	Change the PCB ASS'Y.

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SPECIFICATION

MODEL	DWD-M1031
Power Consumption	220V~240V/50Hz (2000W)
Dimension (mm)	595x440x850 (WxDxH)
Maximum mass of textile (kg)	6 kg
Unit Weight (kg)	54(Net) / 57(Gross)
Standard Water Consumption	42 ℓ
Spin Speed (RPM)	1000/800/600
Operating Water Pressure	0.03MPa ~ 0.8MPa (0.3kgf/cm^2 ~ 8kgf/cm^2)

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ABOUT THIS MANUAL

VISION CREATIVE, INC.
서울 종로구 통의동
6번지 이룸빌딩 4층

담 당	전은일 님		
브 랜 드	DAEWOO	언 어	영 어
F. MODEL	D-FU1031		
B. MODEL	DWD-M1031		
일 정	1차 2008.07.15-필름 전체 출력		
	2차		
	3차		
	4차		
	5차		
제 판	한	인 쇄	동 일

MEMO 접수: (총16p)

08.06.04-표지, 2p, 5p, 8p, 9p, 10p, 11p, 16p_수정_ 신규 8p
08.06.09-표지, 8p, 9p,11p, 16p_수정_ 신규 5p
08.06.09-11p 수정_ 신규 1p
08.06.19-8p 수정_ 신규 1p
08.07.22-8p, 10p,16p_수정_ 신규 3p
08.07.29-10p, 15p,16p_수정_ 신규 3p
08.09.04-16p_수정_ 신규 1p
08.09.05-표지, 16p_수정_ 신규 2p
08.10.31-8p_수정_ 신규 1p (수정 페이지 필름출력)
08.11.26-8p 수정_ 신규 1p

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